Design Research

Privacy Impact Assessment (PIA)

June 14, 2021

POINT *of* CONTACT

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Instructions for GSA employees and contractors:

This template is designed to help GSA employees and contractors comply with the E-Government Act of 2002, Section 208. GSA conducts privacy impact assessments (PIAs) for electronic information systems and collections in accordance with CIO 1878.3 Developing and Maintaining Privacy Threshold Assessments, Privacy Impact Assessments, Privacy Act Notices, and System of Records Notices. The template is designed to align with GSA business processes and can cover all of the systems, applications, or projects logically necessary to conduct that business.

The document is designed to guide GSA Program Managers, System Owners, System Managers, and Developers as they assess potential privacy risks during the early stages of development and throughout the system, application, or project's life cycle.

The completed PIA shows how GSA builds privacy protections into technology from the start. Completed PIAs are available to the public at gsa.gov/pia.

Each section of the template begins with a statement of GSA's commitment to the Fair Information Practice Principles (FIPPs), a set of eight precepts that are codified in the Privacy Act of 1974.

Please complete all sections in italicized brackets and then delete the bracketed guidance, leaving only your response. Please note the instructions, signatory page, and document revision history table will be removed prior to posting the final PIA to GSA's website. **Please send any completed PIAs or questions to gsa.privacyact@gsa.gov.**

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Stakeholders

Name of Chief Information Security Officer (CISO):
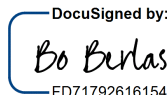
- Bo Berlas

Name of Program Manager/System Owner:

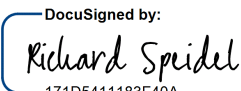- Ben Peterson (18F) - TTS Research Guild

Name of Chief Privacy Officer (CPO):

- Richard Speidel

Signature Page

Signed:

Bo Berlas
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Chief Information Security Officer (CISO)

Benjamin Peterson
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Program Manager/System Owner

Richard Speidel
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Chief Privacy Officer (CPO) - Under the direction of the Senior Agency Official for Privacy (SAOP), the CPO is responsible for evaluating the PIA and ensuring the program manager/system owner has provided complete privacy-related information.

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Document Revision History

Date	Description	Version #
01/01/2018	Initial Draft of PIA Update	1.0
04/23/2018	Added questions about third-party services and robotics process automation (RPA)	2.0
6/26/2018	New question added to Section 1 regarding Information Collection Requests	2.1
8/29/2018	Updated prompts for questions 1.3, 2.1 and 3.4.	2.2
11/5/2018	Removed Richard's email address	2.3
11/28/2018	Added stakeholders to streamline signature process and specified that completed PIAs should be sent to gsa.privacyact@gsa.gov	2.4
4/15/2019	Updated text to include collection, maintenance or dissemination of PII in accordance with e-Gov Act (44 U.S.C. § 208)	2.5
9/18/2019	Streamlined question set	3.0
3/31/2020	Approved and Signed - FY2020	4.0
4/7/2021	New Template - Content copied (No changes) - FY2021	5.0

5/26/2021	PM POC Updated	6.0
6/7/2021	Section C updated	7.0
6/14/2021	Approved	8.0

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Document purpose

GSA uses design research to better understand the context of use and experiential aspects (eg. usefulness and usability) of the digital products and services that it builds, buys, maintains, and consults on. Incident to its design research practice, GSA may collect personally identifiable information (PII) about people. PII is any information that can be used to distinguish or trace an individual's identity such as a name, address, place of birth, etc.

This document contains important details about GSA's collection and use of information, both standardized and nonstandardized, in its conduct of design research. This document pertains to activity that the GSA Technology Transformation Service (TTS) performs on behalf of another executive agency under an interagency agreement through its Clients and Markets team. Other programs and offices within GSA and TTS will be governed by similar documents executed by executives for those programs and initiatives. GSA uses Privacy Impact Assessments (PIAs) to explain how it collects, uses, secures, shares, and destroys information in a way that protects privacy. GSA PIAs are broken out into sections reflecting the goals of its privacy program. These sections also align to the Fair Information Practice Principles (FIPPs), a set of precepts codified in the Privacy Act of 1974.[2]

A. System, Application, or Project Name:

Design Research

B. System, application, or project includes information about:

Federal employees, contractors, and members of the public

C. For the categories listed above, how many records are there for each?

100,000 unique records about Federal employees and contractors, and members of the public].

D. System, application, or project includes these data elements:

Design research collects data across two (2) broad categories: 1) administrative data and 2) study data.

Administrative data is the data collected and used during the recruiting and administration of a design research study. Administrative data includes:

Respondent data is data such as a participant's name, contact information (telephone number, email address, etc.), reason for using the product or service, and/or goals for use. When necessary, this may also include demographic information such as age range, education level, language, profession, occupation, etc.

Respondent metadata is data indirectly collected as a result of the medium (for example, an email or a web form) through which a respondent indicates their interest in participating in design research. It may include data such as timestamp, operating system, and user-agent (browser).

Administration trace data is data used to facilitate the administration of design research. For example, GSA may record having contacted a respondent for an interview or having received a participant's signature on a consent form.

Study data is data collected both directly and indirectly from participants during a design research study. This may include, with consent, any photo, video, or audio recording of individuals and meetings, written or typed notes, and interview transcriptions. Specifically, study data includes:

Direct feedback is data collected directly from participants about products and services, such as responses, experiences, opinions, anecdotes, and assessments.

Contextual data is data describing context of use. This includes, but is not limited to: descriptions (including photo, and/or video) of home and workplaces, interactions, and existing processes they follow to complete tasks and achieve goals the product or service will support; perceptions, use, and valuations of products, services, and regulations; relevant literacies; and the success of existing outreach and educational efforts.

Overview

General Services Administration's Technology Transformation Service (TTS) aims to improve the way the government builds, buys, and maintains digital products and services. Accordingly, TTS leverages approaches to service delivery originally pioneered in government by the Presidential Innovation Fellows (PIFs), the Consumer Financial Protection Bureau (CFPB), and the US Digital Service. One such approach is design

research. The scope of this document is specific to activity that TTS performs on behalf of another executive agency under an interagency agreement through its Clients and Markets team.

The spirit of design research at GSA is not new. Indeed, GSA's Office of Customer Experience has practiced design research since its inception. This assessment is simply the result of a cross-agency collaboration to identify best practices and assess potential privacy risks in a transparent way.

[Executive Order 13571](), Streamlining Service Delivery and Improving Customer Service, Section 2 (B) states that "agencies shall establish mechanisms to solicit customer feedback on government services and using such feedback shall regularly make improvements to government services." GSA's design research practice is directly aligned with Executive Order 13571.

Design research broadens perspectives and tests assumptions by actively and systematically engaging with the world. Design research may include both qualitative and quantitative research methods such as interviews with stakeholders and users, investigating and comparing tools and systems, and interacting with members of the public. Design research can include the use of interview protocols, questionnaires, surveys, and analytics.

GSA calls this activity design research because of its relationship to higher-order decision-making. GSA uses design research to: (1) better understand the contexts in which digital products and services are and will be used, and the goals they serve; (2) inform design hypotheses; (3) better understand the experiential aspects (eg. usefulness and usability) of the products and services it builds, buys, maintains, and consults on; and (4) validate design decisions made to improve usefulness and usability.

Contextual integrity is essential to design research. GSA stands to derive the most realistic and actionable insights from studies that allow for observation of users' normal behaviors and understanding of their honest thoughts, feelings, experiences, and opinions. GSA therefore chooses its recruiting methods, research methods, as well as the settings for its design research on a per-study basis, taking into account factors such as cost, desired data formats, and anticipated response rates. GSA's [Method Cards]() describe some of its more commonly practiced design research methods. GSA chooses the setting for its studies across three broad categories, including: in-person (for example, interviews or workshops); remote, synchronous (for example, telephone or video conversations); and remote, asynchronous (for example, via discussion forums, email, social media, and web analytics).

Design research is performed as authorized by Executive Order 13571. In addition, GSA uses social science research practices such as consent forms (also called a Design Research Participant Agreement) and operational security protections.

Design research may lead to the creation of artifacts such as research reports, personas, and journey maps. GSA maintains descriptions of and templates for some such artifacts in its [Methods Cards website](#). GSA assesses the sensitivity of its artifacts and applies appropriate risk-based mitigations before sharing them. Generally speaking, at GSA such artifacts are created using aggregated, de-identified data; in cases where data containing PII may be used (eg. a quote, photo, audio or video clip), GSA ensures that individuals who may be identified by such data have given their consent for such usage.

GSA may contract or partner with third parties to assist in conducting design research. As appropriate, GSA may identify individuals to act as contracting officer's representatives (CORs), lead studies, train third parties with whom it collaborates, and monitor third party performance. GSA proactively informs anyone who participates in design research of its inherent privacy risks and the steps GSA takes to mitigate them. GSA utilizes contracts to ensure that third parties meet privacy and security requirements.

Participation in design research is voluntary. Individuals who respond expressing a desire to participate (respondents) and who demonstrate that they meet the study's selection criteria may be selected for participation (participants). A person's responses (or lack thereof) in the course of a design research study can in no way affect that person's eligibility for or access to any government benefit, service, or position.

When necessary, GSA may use recruitment protocols ("screeners") to explain the voluntariness, outline the purpose, indicate the desired participant profile, and solicit participation, in its design research. GSA recruitment protocols are written in plain language to be as accessible as possible. Individuals may be recruited through a variety of means, including but not limited to: agency contact lists (mailing lists, listservs, etc.), snowball sampling, installing popups on existing products or services (live recruiting), code repositories, social media, flyers, cold calling, or using a recruiting agency.

Most design research methods only require a single interaction between GSA and participants. Some methods however, such as a diary study, may require multiple interactions. In cases where multiple interactions are necessary, participants are provided advance notice that their participation in the study requires multiple interactions or collections of information over an established period of time. Likewise, participants are informed of their opportunities to consent to future interactions or ongoing information

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collection. GSA may follow up with a participant for the purposes of concluding a single design research study.

*Design research can present risks related to confidentiality, misuse of information, and notice and consent opportunities. Risks related to **confidentiality** are present any time information could be used in an unauthorized manner. This is particularly relevant to design recruitment and administration, since individuals who respond to GSA recruiting protocols are effectively indicating some degree of association with the study's area of inquiry. For example, if conducting a study to improve access to infectious disease information, an individual's mere interest or participation could be confidential.*

Breaches in confidentiality can potentially make individuals more vulnerable to harm or embarrassment. To reduce this risk, GSA trains its employees to properly handle data collected and used in the conduct of design research; stores administrative data separate from study data; applies appropriate minimization rules to study data when using it in analysis; designs its recruitment materials and protocols to reduce collection of sensitive information about those it seeks to recruit; and uses security controls to protect information used in the conduct of design research.

*Risk related to **misuse of information** may involve the collection and use of information without the participant's consent. Misuse of information can also include reuses of information for secondary types of design research that are incompatible with the purposes of the initial collection. To reduce this risk, GSA: minimizes access to data collected throughout a design research study to those with a need-to-know basis; stores administrative data separate from study data; and applies appropriate minimization rules to study data before subjecting it to shared analysis.*

*Finally there is a risk that participants may not fully understand the ways in which their information may be collected and used in GSA's design research. GSA helps mitigate this risk through **notice and consent opportunities**. GSA trains its staff to inform individuals that (1) their participation is voluntary and (2) the specific ways in which their information may be collected and used. GSA further explains its use of information through appropriate vehicles such as Privacy Impact Assessments, System of Record Notices, Privacy Act Notices, and consent forms.*

GSA relies on multiple systems to support its design research. Information used for design research purposes is maintained within GSA authorized computing environments, including but not limited to [GSA's Enterprise Organization of Google Applications](). This system is implemented across various vendors as well as GSA applications, all of which

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are part of the Enterprise Cloud Services (ECS) system. This system is also referred to as [GSA/CIO-3](#)*.*

SECTION 1.0 PURPOSE OF COLLECTION

GSA states its purpose and legal authority before collecting PII.

1.1 What legal authority and/or agreements allow GSA to collect, maintain, use, or disseminate the information?

GSA's design research is authorized by Executive Order 13571, Section 2 (B)

GSA collects this information to help meet the mandate of Executive Order 13571, Section 2 (B), which requires agencies to establish mechanisms to solicit customer feedback on Government services and to use such feedback regularly to make service improvements.

GSA collects **administrative data***, including voluntarily submitted respondent data and metadata, for recruiting and administration purposes. These purposes include filtering respondents for study participation, scheduling participation, and conducting follow-up.*

GSA collects **study data** *to: (1) better understand the contexts in which digital products and services are and will be used and the goals they serve; (2) inform design hypotheses; (3) better understand the experiential aspects (such as usefulness and usability) of the digital products and services it builds, buys, maintains, and consults on; and (4) validate design decisions made to improve usefulness and usability.*

1.2 Is the information searchable by a personal identifier, for example a name or Social Security Number? If so, what System of Records Notice(s) apply/applies to the information?

Yes. The system of records [GSA/CIO-3, GSA Enterprise Organization of Google Applications and SalesForce.com](#) *applies. However, administrative data is generally indexed and retrieved via project identifier rather than a personal identifier (for example, "project one, sprint one, respondent one; project one, sprint one, respondent two; etc.").*

GSA's design research is authorized by Executive Order 13571, Section 2 (B).

1.3 Has an Information Collection Request (ICR) been submitted to or approved by the Office of Management and Budget (OMB)? If yes, provide the relevant names, OMB control numbers, and expiration dates.

Yes. The system of records [GSA/CIO-3, GSA Enterprise Organization of Google Applications and SalesForce.com](#) applies. However, administrative data is generally indexed and retrieved via project identifier rather than a personal identifier (for example, "project one, sprint one, respondent one; project one, sprint one, respondent two; etc.").

1.4 Has a records retention schedule been approved by the National Archives and Records Administration (NARA)? Explain how long and for what reason the information is retained.

GSA maintains and disposes of agency records in accordance with [NARA's General Records Schedule (GRS) 3.1-011, "General Technology Management Records - System Development Records](#). GSA destroys these records at maximum either (1) five years after a given system is superseded by a new iteration, terminated, or defunded; or (2) when the records are no longer needed for agency/IT administrative purposes.

In conducting design research, GSA may seek OMB approval under the PRA through one of its generic clearances, including: [OMB Control Number 3090-0297](#), "Generic Clearance for the Collection of Qualitative Feedback on Agency Service Delivery (GSA)."

When GSA conducts design research in collaboration with other agencies, it may collaborate with PRA desk officers at those agencies. Any additional PRA packages which are cleared may be reviewed at Reginfo.gov.

The purpose of design research depends on the research question(s) or area(s) of inquiry driving any given study. Such purposes present privacy risks related to inappropriate collection, use and disclosure of PII.

GSA mitigates these risks in different ways. First, as a practical matter, GSA limits its studies to areas where it stands to learn the most about the systems it might affect. This inherently reduces the risk that it might inappropriately collect PII.

GSA further mitigates risk through appropriate training, access controls, and minimization rules. Administrative or study data that contains PII, such as participant lists, raw transcripts, notes, photos, and videos, are stored only in approved systems. GSA employs appropriate minimization rules and does not include any PII in analysis documents or synthesis artifacts unless a participant has given their express consent. GSA only retains

design research information for as long as it is necessary to support its mission in accordance with approved records retention schedules (as described in response to question 1.4).

GSA may conduct design research in collaboration with, or on behalf of, other federal government agencies, and third-party vendors with whom the agencies have contracted. When it does so, GSA collaborates with such agencies and their vendors to meet any applicable privacy requirements. If necessary, GSA contracts and Inter-Agency Agreements (IAAs) will define the conditions under which GSA is expected to share design research data with the other government agency.

Finally, GSA outlines appropriate uses and access controls for PII whenever it enters into agreements with third parties; for example, through data-sharing agreements or contracts.

SECTION 2.0 OPENNESS AND TRANSPARENCY

GSA is open and transparent. It notifies individuals of the PII it collects, maintains, uses or disseminates as well as how it protects and shares it. It provides straightforward ways for individuals to learn how GSA handles PII.

2.1 Will individuals be given notice before the collection, maintenance, use or dissemination of personal information about themselves? If not, please explain.

Yes. GSA uses both recruitment protocols and consent forms to explain the voluntariness, outline the purpose, and indicate the desired participants of its design research. These materials and protocols are written in plain language to be as accessible as possible. Individuals may be recruited through a variety of means, such as: agency contact lists (mailing lists, listservs, etc.), snowball sampling, installing popups on existing products or services (live recruiting), code repositories, social media, fliers, cold calling, or using a recruiting agency.

GSA will provide design research Privacy Act Notices in a variety of ways: in person, over the phone, via email, in hardcopy, and online via its website. In some instances respondents are provided an opportunity to request a hard copy of the notice in addition to having it provided in another medium.

GSA does not maintain a pool of volunteers from which to recruit. In the event that GSA contracts with a third party to recruit for or conduct design research on its behalf, GSA ensures that the third party uses appropriate recruitment protocols and consent forms.

GSA's contracts include provisions authorizing GSA to audit contractors to ensure they provide individuals with copies of [its Design Research Privacy Act Notice](#) and comply with other contract requirements.

Individuals are notified of how GSA may use the information collected from design research-recruiting activities on its website. However, design research study analysis does not rely on direct identifying PII. Sometimes GSA seeks to include information that may directly identify an individual, such as a photo or video clip, in its synthesis artifacts (e.g., presentations, journey maps); in such cases, GSA will only use such information with the individual's consent.

There is a risk that participants may not fully understand that GSA is conducting the design research, especially when third parties are involved. To mitigate this risk, GSA identifies itself, as appropriate, in materials associated with its design research. This includes but is not limited to recruitment protocols, consent forms, and information collection instruments.

SECTION 3.0 DATA MINIMIZATION

GSA limits PII collection only to what is needed to accomplish the stated purpose for its collection. GSA keeps PII only as long as needed to fulfill that purpose.

3.1 Why is the collection and use of the PII necessary to the system, application, or project?

PII may be collected for recruiting and administration, and in the process of conducting, a design research study. This includes, for example, activities such as: assessing availability and profile fit; scheduling participation; recording or transcribing an interview; asking about participants' life or work context as it relates to the product or service being designed; and conducting follow-up research as appropriate. Photos and videos taken as a part of the study may also contain PII.

The desired participants in GSA's design research vary depending on the products and services being evaluated or designed, the research questions addressed, and the methods of data collection employed. Respondents may include federal employees, contractors, and members of the public. Groups of particular interest include those who currently make use of, will make use or, or may be impacted by the products and services which GSA builds or consults on. In the past, for example, GSA has collected information from respondents applying for permits to use public land, to inform work done on behalf of the US Forest Service; and reporters who were making use of data provided by the Federal Election Commission (FEC).

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Note: System includes the following PII elements.

Administrative data *may contain PII. Administrative data is data collected and used during the recruiting and administration of a design research study. Administrative data includes:*

- ***Respondent data*** *is data such as name, contact information (for example, telephone number or email address), reason for using the product or service, profession, and/or goals for use. When necessary, this may also include demographic information such as age range, education level, language, occupation, etc.*
- ***Respondent metadata*** *is metadata collected at time of response, such as timestamp, operating system, and user-agent ("browser").*
- ***Administration trace data*** *is data used to facilitate the administration of design research. For example, GSA agents may record having contacted a respondent for an interview or having received a participant's signature on a consent form.*

Study data *may also contain PII. Study data is data collected both directly and indirectly from participants during a design research study. This may include photographic, audio, and/or video recording of individuals and meetings; notes; and interview transcriptions. Specifically, study data includes:*

- ***Direct feedback*** *is data collected directly from participants about products and services, such as responses, experiences, opinions, anecdotes, and assessments.*

Contextual data *is data describing context of use. This includes, but is not limited to: descriptions (including photo and/or video) of home and workplaces, interactions, and existing processes they follow to complete tasks and achieve goals the product or service will support; perceptions, use, and valuations of products, services, and regulations; relevant literacies; and the success of existing outreach and educational efforts.*

3.2 Will the system, application, or project create or aggregate new data about the individual? If so, how will this data be maintained and used?

No. GSA's design research will neither aggregate previously unavailable data about an individual, nor will it create new data about an individual. GSA applies appropriate minimization rules to its study data so as to prohibit the compilation of data on specific individuals.

3.3 What protections exist to protect the consolidated data and prevent unauthorized access?

Subsequent to collection, GSA reduces risk through the application of appropriate minimization rules.

Design research typically results in the creation of design research artifacts (eg. research reports, personas, and journey maps). These artifacts are based on aggregate data which has already been de-identified. However GSA also assesses the sensitivity of its research artifacts, and applies risk-based mitigations before sharing them. For example, GSA ensures that participants who may be identified by data included in such artifacts have provided their consent

GSA protects personal information relevant to design research as described in Section 6, Security, below.

3.4 Will the system monitor the public, GSA employees, or contractors?

No. GSA may use information that is passively collected through programs such as its Digital Analytics Program to inform design research, however these programs do not collect PII and do not provide the capability to monitor individuals.

In any case where GSA seeks to actively observe or interview an individual as part of a design research study, GSA first informs them of what participation will entail and ensures they have voluntarily consented to participate. If an individual does not consent to participate, they are not included in the study.

However, use of the GSA network and storage devices that maintain the design research information are monitored for policy violations and usage is audited in accordance with GSA IT Security Procedural Guide: Audit and Accountability (AU) CIO-IT Security-01-08.

3.5 What kinds of report(s) can be produced on individuals?

Design research does not produce reports on individuals; rather, design research may lead to the creation of artifacts describing the ecosystems in question. These artifacts may include (but are not limited to) research reports, personas, and journey maps.

3.6 Will the data included in any report(s) be de-identified? If so, what process(es) will be used to aggregate or de-identify the data?

Yes. Design research does not produce reports on individuals; rather, design research may lead to the creation of artifacts describing the ecosystems in question. These artifacts may include (but are not limited to) research reports, personas, and journey maps.

Design research artifacts are based on aggregate data which has already been subjected to appropriate minimization rules at the analysis stage. However, these research artifacts are occasionally illustrated by quotations, photographs, and/or audio/video clips which may contain PII. In such cases, GSA will not use the content unless the participant has given express consent.

In some cases, GSA may wish to use quotations, photographs, and/or audio/video clips collected during a particular study, and which may contain PII, in a broader context beyond the bounds of the study itself, such as a public blog post. In such cases, GSA will obtain the consent of participants prior to disclosure.

SECTION 4.0 LIMITS ON USING AND SHARING INFORMATION

GSA publishes a notice about how it plans to use and share any PII it collects. GSA only shares PII in ways that are compatible with the notice or as stated in the Privacy Act.

4.1 Is the information in the system, application, or project limited to only the information that is needed to carry out the purpose of the collection?

Yes. Direct identifying PII is necessary to conduct recruiting for, and to facilitate the administration of, design research. GSA stores and secures this information as outlined in Section 1.0. This is stored separately from the information collected during the studies themselves.

PII also may be collected in the process of conducting design research. Particular details about a participant's life and work, which may be relevant to how they use or may benefit from a product or service, may not be directly identifying but could be used together in order to identify a participant. GSA also stores and secures this information as outlined in Section 1.0.

4.2 Will GSA share any of the information with other individuals, federal and/or state agencies, or private-sector organizations? If so, how will GSA share the information?

Yes. GSA conducts design research to aid GSA's service delivery as well as in collaboration with or on behalf of other government agencies. When it does so, GSA meets applicable privacy requirements both at GSA, and at the agencies with whom it collaborates. GSA uses Inter-Agency Agreements (IAAs) to define the conditions under which it shares design research data and artifacts and notifies participants when it is collaborating with other agencies during the information collection.

Design research may lead to the creation of design research artifacts, such as research reports, personas, and journey maps. GSA may make versions of such artifacts available after assessing the sensitivity of each artifact and applying risk-based mitigation strategies, for example ensuring that data has been de-identified or if identifying data such as quotes, photo, audio, or video are included, ensuring that the participants involved have provided their consent for such usage..

4.3 Is the information collected directly from the individual or is it taken from another source? If so, what is the other source(s)?

The majority of data upon which design research relies is collected directly from individuals. Three (3) types of data, however, may involve indirect collection: participant data, respondent metadata, and contextual data.

- *__Participant data__ may sometimes be obtained via referrals. For example, when conducting design research on behalf of other government agencies, those agencies may provide the names and contact information for potential participants; recruitment may also include methods such as "snowball sampling" or cold calling or e-mailing based on publicly available information.*
- *__Respondent metadata__ is indirectly collected as a result of the medium (for example, the web form) through which a respondent indicates their interest in participating in design research. It may include data such as timestamp, operating system, and user-agent ("browser").*
- *__Contextual data__ often contains information captured by GSA in the course of a design research study. For example, GSA may, with its participant's permission, take pictures of the participant's place of work following an interview.*

4.4 Will the system, application, or project interact with other systems, applications, or projects, either within or outside of GSA? If so, who and how? Is a formal agreement(s) in place?

Yes. Most systems, such as contractor systems supporting design research, are not directly integrated with any other GSA system. All data transfers are manual; that is, they

are executed by qualified personnel between contractor systems, vendor websites, and GSA internal systems via encrypted tunnels. These transfers can also take place via encrypted email. Some data that supports the design research will come from GSA internal systems, and the outside interactions of those systems will be documented in those systems' Security Plans (SSPs) and PIAs, as appropriate.

The extent that information collected contains direct identifying PII, there may be risk of unauthorized use. To mitigate this risk, GSA restricts the collection of and access to direct identifying PII. When contracting with a third party, for example, GSA outlines appropriate uses and access controls for PII; GSA requires that study data be stored separately from administrative data.

To mitigate the risk of re-identification and monitoring of individuals, GSA limits the personnel who are able to access directly identifying PII, to only those with a role-based need to know. The limitation is made using technical access controls, and GSA provides appropriate privacy and security training so that personnel know how to handle and protect data.

As appropriate, GSA may identify individuals to act as contracting officer's representatives (CORs), lead studies, train third parties with whom it collaborates, and monitor third party performance. GSA proactively informs anyone who participates in design research of its inherent privacy risks and the steps GSA takes to mitigate them.

GSA does not attempt to re-identify information that has been stripped of direct identifying PII, and may be contractually prohibited from doing so. GSA further reduces the risk of unauthorized disclosures by reviewing documents related to design research in light of legal requirements, including the Privacy Act, so that information is not inappropriately disclosed.

GSA personnel participate in communities of professional practice related to design research which hold regular events, such as critique groups, team meetings, and guild meetings, to ensure work quality, learn from each other, and share best practices. During these events GSA personnel may share limited amounts of study data on a need-to-know basis for performance-related feedback and training. To mitigate risks associated with the operation of these groups, GSA applies appropriate information security controls such as those outlined in this section, as well as sections 6.3 and 6.4 of this document. GSA personnel may take steps to de-identify study data when it is used for this purpose.

SECTION 5.0 DATA QUALITY AND INTEGRITY

GSA makes reasonable efforts to ensure that all PII it maintains is accurate, relevant, timely, and complete.

5.1 How will the information collected, maintained, used, or disseminated be verified for accuracy and completeness?

GSA primarily collects information directly from participants, which ensures that the information is as accurate as possible. Further, GSA uses best practices from industry (specifically from design-led companies and consultancies) and academia to plan its studies and manage their associated data. In addition, when GSA partners with a third party, it outlines appropriate standards for data accuracy and completeness in its contracts.

Contextual integrity is essential to design research; GSA stands to derive the most realistic and actionable insights from studies that do not interfere with its users' normal behaviors or distort their opinions. Accordingly, GSA chooses its recruiting methods, research methods, as well as the setting for its design research on a per-study basis.

Each design research method may pose a unique privacy risk. For example, moderated usability studies may pose privacy risks due to the extent to which researchers are able to read information that is ambiently present on a user's screen. As appropriate, GSA proactively informs participants of the extent to which its choice of study method and/or setting poses privacy risks.

Finally, to reduce the risk related to data quality and integrity, GSA uses best practices from social science research design and data management techniques to reduce the impact of errors or bias in design research.

SECTION 6.0 SECURITY

GSA protects PII from loss, unauthorized access or use, destruction, modification, or unintended or inappropriate disclosure.

6.1 Who or what will have access to the data in the system, application, or project? What is the authorization process to gain access?

GSA grants access to information collected via design research only to personnel who have a need to know. As appropriate, GSA may empower specific personnel to lead

studies, train collaborators, monitor performance, and inform participants of potential privacy risks and the steps GSA takes to mitigate them.

When GSA collaborates with researchers at a partner agency to conduct design research, it uses both legal and non-disclosure agreements to restrict access to data, as appropriate.

GSA personnel participate in communities of professional practice related to design research, which hold regular events such as critique groups, team meetings, and guild meetings. During these events GSA personnel may share limited amounts of study data on a need-to-know basis for performance-related feedback and training. To mitigate risks associated with the operation of these groups, GSA applies appropriate information security controls such as those outlined in sections 4.5, 6.3, and 6.4 of this document.

6.2 Has GSA completed a System Security Plan (SSP) for the information system(s) or application?

Yes, GSA has completed system security plans (SSPs) for the systems that support and maintain the information used for design research. GSA categorizes all of its systems using Federal Information Processing Standard Publication 199, Standards for Security Categorization of Federal Information and Information Systems (FIPS 199). Typically, design research is conducted on systems rated "moderate impact." Based on this categorization, GSA implements security controls from NIST Special Publication 800-53, "Recommended Security Controls for Federal Information Systems and Organizations" to secure its systems and data.

6.3 How will the system or application be secured from a physical, technical, and managerial perspective?

GSA secures the system by assessing the information therein for compliance risk, reputational risk, strategic risk, situational/circumstantial risk, and operational risk. In order to mitigate these risks, GSA implements extensive security controls for information systems that collects or maintains collected or maintained on its behalf, and conducts assessments of vendors and services it procures.

GSA implements the following controls for internally maintained systems: GSA policies and procedures governing privacy and information security; background checks on all personnel with access to the system; initial and follow-on privacy and security awareness training for each individual with access to the system; physical perimeter security

safeguards; Security Operations Center (SOC) to monitor antivirus and intrusion detection software; risk and controls assessments and mitigation; technical access controls, such as role-based access management and firewalls; and appropriate disaster mitigation strategies, breach notification processes and plans, and secure channels for submitting information.

GSA implements controls relevant to third party vendors and services according to risks identified the following types of third party reviews: Third Party Security Assessment and Authorization (SA&A) Package; Statements on Standards for Attestation Engagements (SSAE) Review; Risk Assessments by Independent Organization; or a complete Risk Assessment by GSA.

6.4 Are there mechanisms in place to identify and respond to suspected or confirmed security incidents and breaches of PII? If so, what are they?

GSA has [procedures](#) in place for identifying and handling security incidents and privacy breaches. GSA monitors use of its systems and is responsible for reporting any potential incidents directly to the relevant Information Systems Security Officer. This Officer coordinates the escalation, reporting and response procedures on behalf of GSA.

There is always some potential risk of unauthorized use or disclosure of PII. GSA mitigates the risk of privacy incidents by providing privacy and security training to GSA personnel on the appropriate use of information and on implementing breach notification processes and plans.

In addition, access is limited on a need to know basis, with logical controls limiting access to data. GSA also automates protections against overly open access controls. For example, GSA's CloudLock tool searches all GSA documents stored in Google Drive for certain keyword terms and removes the domain-wide sharing on these flagged documents until the information is reviewed. GSA agents can then review the flagged items to ensure no sensitive information has been accidentally placed in or inadvertently shared via these files.

SECTION 7.0 INDIVIDUAL PARTICIPATION

GSA provides individuals the ability to access their PII and to correct or amend it if it is inaccurate. If GSA exempts a system or program from access, amendment and other provisions of the Privacy Act, it notifies the public of that exemption.

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7.1 What opportunities do individuals have to consent or decline to provide information? Can they opt-in or opt-out? If there are no opportunities to consent, decline, opt in, or opt out, please explain.

Unmoderated design research studies typically require little-to-no interaction between GSA and study participants because data collected during unmoderated studies is often unidentifiable. For example, GSA may study unidentifiable usage metadata collected under its Digital Analytics Program. Individual participation in unmoderated design research studies may be obligatory (that is, not voluntary); per [FTC guidance from 2010](), GSA informs individuals of passive data collections by way of its websites' respective privacy policies and terms of use.

Moderated design research studies, on the other hand, require interaction between GSA and study participants. For example, GSA may ask individual participants to share their screen and explain their goals and current uses of an information system. Participation in moderated studies is always voluntary. When recruiting for a moderated study, GSA informs individuals via a recruitment protocol — for example, a website popup that says "Help us improve this website!" — containing [a Privacy Act Notice](). Individuals are also provided with a consent form in which they can acknowledge their free and informed choice to participate.

GSA's consent forms for design research, also called a Design Research Participant Agreement, are [based on a publicly available template](); they include a link to a [Privacy Act Notice](). These forms may also include, as appropriate:

- *a statement of the purposes of the research;*
- *the expected duration of the study;*
- *a description of the research methods employed;*
- *a description of any reasonably foreseeable risks or discomforts to the participant;*
- *a description of the benefits or results that can reasonably be expected from the research;*
- *a description of how GSA maintains confidentiality of records that identify the participant;*
- *a point of contact to address any questions;*
- *separate releases for participants who choose to provide their consent for usage of quotes, photo, and/or video or audio clips;*
- *necessary language for the government to accept gratuitous services;and a statement that participation is voluntary, refusal to participate involves no penalty, and that the participant may discontinue their participation at any time without penalty.*

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7.2 What procedures allow individuals to access their information?

Individuals may seek to access or amend administrative or study data about themselves in accordance with the Privacy Act and the GSA's Privacy Act regulations at 41 CFR Part 105-64.2-4 et seq.

7.3 Can individuals amend information about themselves? If so, how?

Yes. Regardless of whether individuals choose to participate or not, GSA may create administrative-trace data acknowledging their choice. This information describes, at minimum, a potential relationship between an individual and GSA. GSA mitigates this risk through appropriate access controls to administrative data, by promoting transparency through this PIA, and through public comments to Information Collection Requests published in the Federal Register.")

SECTION 8.0 AWARENESS AND TRAINING

GSA trains its personnel to handle and protect PII properly.

8.1 Describe what privacy training is provided to users, either generally or specifically relevant to the system, application, or project.

GSA requires privacy and security training for all personnel and has policies in place that govern the proper handling of PII.

GSA mitigates these risks by ensuring that all GSA personnel engaged in design research are made aware of the potential risks inherent in design research through activities including but not limited to, town-hall events and presentations, Research Guild meetings, email reminders, and the publication and dissemination of this PIA.

The conduct of design research involves risks that are similar to GSA's other interactions with its customers and the public. Therefore, design research poses minimal additional risk related to training. As appropriate, GSA may identify individuals to act as contracting officer's representatives (CORs), lead studies, train third parties with whom it collaborates, and monitor third party performance. GSA proactively informs anyone who participates in design research of its inherent privacy risks and the steps GSA takes to mitigate them.

SECTION 9.0 ACCOUNTABILITY AND AUDITING

GSA's Privacy Program is designed to make the agency accountable for complying with the Fair Information Practice Principles. GSA regularly checks that it is meeting the requirements and takes appropriate action if it is not.

9.1 How does the system owner ensure that the information is used only according to the stated practices in this PIA?

GSA requires privacy and security training for all personnel, and has policies that govern the [proper handling of PII](). GSA has also implemented security and privacy controls for its systems, including those that support design research, and has limited access to those personnel with a need to know. Further, OMB requires the GSA to document these privacy protections in submissions for Information Collection Requests processed under the Paperwork Reduction Act (PRA).

As appropriate, GSA may identify individuals to act as contracting officer's representatives (CORs), lead studies, train third parties with whom it collaborates, and monitor third party performance. GSA proactively informs anyone who participates in design research of its inherent privacy risks and the steps GSA takes to mitigate them.

All GSA systems are subject to periodic audits to ensure that GSA protects and uses information appropriately. As discussed above, GSA takes automated precautions against overly open access controls. GSA's CloudLock tool searches all GSA documents stored in Google Drive for certain keyword terms and removes the domain-wide sharing on these flagged documents until the information is reviewed. GSA agents can then review the flagged items to ensure no sensitive information has been accidentally placed in or inadvertently shared via these files.

In keeping with NIST [800-53 rev 4, control number AR-4](), GSA regularly assesses its programs to ensure effective implementation of privacy controls. While some of these assessments can be automated, such as those carried out via GSA's CloudLock tool (mentioned above), others are carried out via GSA or third-party auditors.

Because they may receive privileged access to design research-related data, auditors can pose risks above and beyond those previously described. Specifically, auditors can pose risks to: (1) confidentiality, in the form of re-identification; and (2) misuse of information. Recall that one of the ways in which GSA mitigates the normal risk of re-identification is to separately index administrative data from study data. In order to properly ensure this

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separation, however, GSA auditors would need access to both. Furthermore, due to their privileged access, auditors would have the ability to subject disparate datasets to shared analysis.

To mitigate this risk, GSA clearly identifies personnel with the capacity to audit its design research program and provides them with appropriate role-based training. Auditors perform their duties in collaboration with GSA supervisors and/or GSA's Privacy Office.

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[1]OMB Memorandum *Preparing for and Responding to the Breach of Personally Identifiable Information* (OMB M-17-12) defines PII as: "information that can be used to distinguish or trace an individual's identity, either alone or when combined with other information that is linked or linkable to a specific individual." The memorandum notes that "because there are many different types of information that can be used to distinguish or trace an individual's identity, the term PII is necessarily broad."

[2] Privacy Act of 1974, 5 U.S.C. § 552a, as amended.